

## Patent Abstracts of Japan

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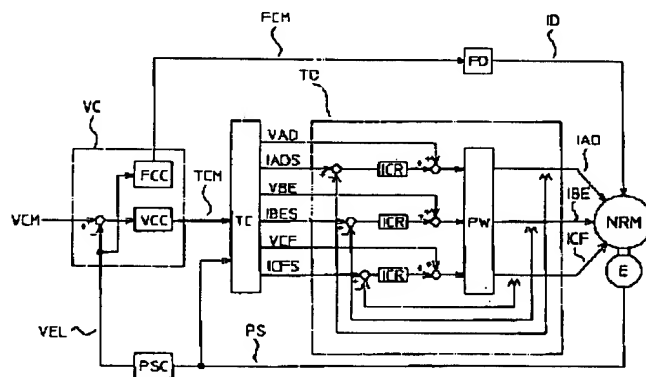
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APPLICANT : OKUMA CORP:

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TITLE : SWITCHED RELUCTANCE MOTOR



**ABSTRACT :** PROBLEM TO BE SOLVED: To attain a switch reluctance motor with a small torque ripple, control device, and high-speed rotary operation thereof.

**SOLUTION:** In a switched reluctance motor and its control device, the switched reluctance motor is provided with a switched reluctance motor (NORM) that has six stator protrusion poles with a width of approximately 30 degrees, four rotor protrusion poles with a width of approximately 50 degrees, and excitation coil winding wound around each stator protrusion pole and connected in series, an excitation drive means (FCC and FD) that connects each excitation coil winding in series and supplies a DC excitation current (ID) to each excitation coil winding for exciting the motor in accordance with an excitation command signal (FCM), and a torque current drive means (PW) that successively energizes current with a quantity in accordance with a torque command (TCM) to the torque coil winding of six stator magnetic poles corresponding to the angle of the rotation of a rotor.

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